

ABSTRACT OF THE DISCLOSURE

An oscillator device includes a Colpitts oscillation circuit using a bipolar transistor, which has a base that is connected to a resonator or a resonance circuit and a collector that is RF-grounded, and a buffer amplifier circuit using a grounded-base bipolar transistor or a grounded-gate FET. The emitter of the transistor in the oscillation circuit is directly connected to the emitter of the transistor in the buffer amplifier circuit or to the drain or source of the FET in the buffer amplifier circuit. The collector of the oscillation transistor is connected to a power supply. The collector of the buffer amplifier transistor, or the source or drain of the FET in the buffer amplifier circuit is DC-grounded. The buffer amplifier circuit also functions as the load of the oscillation transistor.

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